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PERKINS COIE LLP PATENT-SEA P.O. BOX 1247 SEATTLE, WA 98111-1247			EXAMINER CHEN, ERIC BRICE	
			ART UNIT 1765	PAPER NUMBER

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Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.	Applicant(s)
10/636,021	PALSULICH ET AL.
Examiner	Art Unit
Eric B. Chen	1765

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) Responsive to communication(s) filed on 8/6/03.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213..

### Disposition of Claims

- 4) Claim(s) 1-48 is/are pending in the application.
  - 4a) Of the above claim(s) 29-48 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-28 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) 1-48 are subject to restriction and/or election requirement.

### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Power of Attorney (Ch. 14) (PTO-1449 or PTO/SB/08)

- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) Notice of Informal Patent Application (PTO-152)

**DETAILED ACTION**

***Election/Restrictions***

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-28, drawn to a method, classified in class 438, subclass 745.
  - II. Claims 29-48, drawn to a system, classified in class 156, subclass 345.1.
2. The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as method and system for its practice. The inventions are distinct if it can be shown that either: (1) the method as claimed can be practiced by another materially different system or by hand, or (2) the system as claimed can be used to practice another and materially different method. (MPEP § 806.05(e)). In this case, the processing system can be used to etch any structure, regardless if the structure is a semiconductor component.
3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
4. During a telephone conversation with David T. Dutcher on April 20, 2005, a provisional election was made without traverse to prosecute Invention I, claims 1-28. Affirmation of this election must be made by applicant in replying to this Office action. Claims 29-48 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

***Priority***

6. Applicant is advised of possible benefits under 35 U.S.C. 119(a)-(d), wherein an application for patent filed in the United States may be entitled to the benefit of the filing date of a prior application filed in a foreign country.

***Claim Rejections - 35 USC § 102***

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Tomita et al. (U.S. Patent No. 6,054,373).

9. As to claim 1, Tomita discloses a method of processing a microfeature workpiece, comprising: supporting a microfeature workpiece (23) by an unheated support (22) in an interior of a processing chamber (21) (column 7, lines 57-61; Figure 5); contacting a surface of the microfeature workpiece (23) with an etchant liquid

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(column 7, lines 65-67; column 8, lines 1-2), a wall of the processing chamber being substantially non-reactive with the etchant liquid (column 4, lines 18-22); heating the etchant liquid by delivering radiation from a radiation source (24) through the wall of the processing chamber to heat the etchant liquid, the wall being highly transmissive of an operative wavelength range of the radiation and the etchant liquid being absorptive of the operative wavelength range (column 7, lines 62-64); controlling the radiation source to maintain a temperature of the etchant liquid at or above a target process temperature to etch the surface of the microfeature workpiece (column 8, lines 3-9). Although Tomita does not expressly disclose the step of removing the etched microfeature workpiece (23) from the processing chamber (21), this step is inherently present in the process.

10. As to claim 2, Tomita discloses adding the etchant liquid to the processing space at a first temperature that is below the target process temperature (column 4, lines 59-63).

11. As to claim 3, Tomita discloses that the radiation is delivered substantially uniformly across the surface of the microfeature workpiece (23) (column 7, lines 62-64; column 8, lines 3-9).

12. As to claim 4, Tomita discloses that the radiation comprises infrared radiation (column 7, lines 57-61).

13. As to claim 5, Tomita discloses enclosing the microfeature workpiece (23) within the interior of the processing chamber (21) (column 7, lines 57-61; Figure 5).

14. As to claim 6, Tomita discloses that a temperature of the wall of the processing chamber is no greater than the temperature of the etchant liquid when the etchant liquid is at or above the target process temperature (column 7, lines 62-64, lines 65-67; column 8, lines 1-2). The infrared heater (24) is directed at heating microfeature workpiece (23) (column 7, lines 62-62), rather than the quartz walls of processing chamber (21) (column 7, line 59).

15. As to claim 7, Tomita discloses that processing chamber includes a base (22), a temperature of the base of the processing chamber being no greater than the temperature of the etchant liquid when the etchant liquid is at or above the target process temperature (column 7, lines 62-64, lines 65-67; column 8, lines 1-2). The infrared heater (24) is directed at heating microfeature workpiece (23) (column 7, lines 62-62), rather than the quartz base (22) (column 7, line 60).

16. As to claim 8, Tomita discloses that the radiation is substantially the only heat source for heating the etchant liquid from a first temperature to the target process temperature, which is higher than the first temperature (column 7, lines 62-64). The microfeature workpiece (23) is heated by the infrared heater (24), resulting in the conductive heating of the etchant liquid (column 7, lines 62-64).

#### *Claim Rejections - 35 USC § 103*

17. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

18. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

19. Claims 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tomita in view of Yokomizo et al. (U.S. Patent No. 6,399,517).

20. As to claim 10, Tomita does not expressly disclose etching the surface of the microfeature workpiece yields a resultant etchant, the method further comprising determining at least one chemical property of the microfeature workpiece by chemically analyzing the resultant etchant. However, Tomita discloses that the silicon microfeature workpiece (23) is silicon (column 7, line 62) and immersed in phosphoric acid (column 8, lines 25-27). Yokomizo teaches that when etching silicon with a phosphate etchant, the concentration of silicon in the phosphate increases, and that the solution must be periodically changed (column 1, lines 34-40). Yokomizo discloses a processing chamber (10) for etching microfeature workpiece (W) in etchant liquid (E), which contains a concentration sensor (50) (column 4, lines 54-59) to detect silicon concentration in the etchant liquid (column 7, lines 15-22). Moreover, when the silicon

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concentration reaches a predetermined level, this signal can either terminate the etching process (column 7, lines 15-22) or trigger replacement of the etchant liquid (column 7, lines 43-50). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the step of determining at least one chemical property of the microfeature workpiece by chemically analyzing the resultant etchant. One who is skilled the art would be motivated to determine the completion of the etching process or to determine when the etchant liquid should be replaced.

21. Claims 9, 11-17, and 19-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tomita in view of McNeilly et al. (U.S. Patent No. 5,762,755).
22. As to claim 9, Tomita does not expressly disclose an inner surface of the processing chamber comprises a fluoropolymer, further comprising contacting the inner surface of the processing chamber with the etchant liquid. However, Tomita discloses directing an external infrared heater (24) to heat a microfeature workpiece (23) (column 7, lines 62-62), contained in a quartz processing chamber (21) (column 7, line 59; Figure 5). Moreover, the microfeature workpiece (23) is immersed in either sulfuric or phosphoric acid (column 7, lines 65-57; column 8, lines 1-2, lines 25-27). McNeilly teaches the general concept of using a fluoropolymer material in a vapor etching chamber (2) (column 10, lines 25-30; Figure 1) as a suitable material when both corrosion resistance (column 12, lines 42-44) and transparency to infrared wavelengths are required (column 12, lines 44-46). McNeilly also teaches the use of fluoropolymer-coated quartz in etching chambers (column 13, lines 6-11). Therefore, it would have

been obvious to one of ordinary skill in the art at the time the invention was made to form the inner surface of the processing chamber comprises a fluoropolymer, further comprising contacting the inner surface of the processing chamber with the etchant liquid. One who is skilled in the art would be motivated to use a material, such as a fluoropolymer, which is both resistant to etching chemicals and transparent to infrared radiation.

23. As to claims 11, Tomita discloses a method of processing a microfeature workpiece comprising: positioning a microfeature workpiece (23) on an unheated support (22) in an interior of a processing chamber (21) (column 7, lines 57-61; Figure 5); enclosing the microfeature workpiece (23) within the interior of the processing chamber (21) (Figure 5); contacting a surface of the microfeature workpiece (23) with an etchant liquid at a first temperature (column 7, lines 62-64), the etchant liquid being substantially non-reactive with the inner surface of the processing chamber (column 4, lines 18-22); heating the etchant liquid from the first temperature to a second temperature using an infrared heat source (24) positioned entirely outside the enclosed processing chamber (21), the second temperature being higher than the first temperature (column 7, lines 62-64), and the second temperature promoting etching of a surface of the microfeature workpiece (column 5, lines 49-61); etching the surface of the microfeature workpiece with the etchant liquid at or above the second temperature (column 5, lines 49-61).

24. Moreover, Tomita discloses the microfeature workpiece (23) is silicon (column 7, line 62), immersed in phosphoric acid (column 8, lines 25-27), heated to a temperature

between 150°C to 300°C (Figure 3). Yokomizo, which is cited to show that etching is inherent, teaches that exposure of silicon to phosphoric acid at a temperature range of 160°C to 180°C results in silicon etching (column 1, lines 13-24). Therefore, the steps of promoting etching of a surface of the microfeature workpiece at the second temperature; and etching the surface of the microfeature workpiece with the etchant liquid at or above the second temperature are inherently accomplished by Tomita's method.

25. Tomita does not expressly disclose a processing chamber having an inner surface comprising a polymer. However, Tomita discloses directing an external infrared heater (24) to heat a microfeature workpiece (23) (column 7, lines 62-62), contained in a quartz processing chamber (21) (column 7, line 59; Figure 5). Moreover, the microfeature workpiece (23) is immersed in either sulfuric or phosphoric acid (column 7, lines 65-57; column 8, lines 1-2, lines 25-27). McNeilly teaches the general concept of using a fluoropolymer material in a vapor etching chamber (2) (column 10, lines 25-30; Figure 1) as a suitable material when both corrosion resistance (column 12, lines 42-44) and transparency to infrared wavelengths are required (column 12, lines 44-46). McNeilly also teaches the use of fluoropolymer-coated quartz in etching chambers (column 13, lines 6-11). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a processing chamber having an inner surface comprising a polymer. One who is skilled in the art would be motivated to use a material, such as a fluoropolymer, which is both resistant to etching chemicals and transparent to infrared radiation.

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26. As to claim 12, Tomita discloses that the radiation is delivered substantially uniformly across the surface of the microfeature workpiece (column 7, lines 62-64).

27. As to claim 13, Tomita does not expressly disclose that the infrared radiation comprises near infrared radiation. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to heat the etchant liquid with near infrared radiation because applicant has not disclosed that heating with near infrared radiation provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected applicants' invention to perform equally well with infrared radiation because both near infrared and infrared radiation perform the same heating function.

28. As to claim 14, Tomita discloses that a temperature of the wall of the processing chamber is no greater than the temperature of the etchant liquid when the etchant liquid is at or above the target process temperature (column 7, lines 62-64, lines 65-67; column 8, lines 1-2). The infrared heater (24) is directed at heating microfeature workpiece (23) (column 7, lines 62-62), rather than the quartz walls of processing chamber (21) (column 7, line 59).

29. As to claim 15, Tomita discloses that the processing chamber includes a base (22), a temperature of the base of the processing chamber being no greater than the temperature of the etchant liquid when the etchant liquid is at or above the second temperature (column 7, lines 62-64, lines 65-67; column 8, lines 1-2). The infrared heater (24) is directed at heating microfeature workpiece (23) (column 7, lines 62-62), rather than the quartz base (22) (column 7, line 60).

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30. As to claim 16, Tomita discloses that the infrared radiation is substantially the only heat source for heating the etchant liquid from the first temperature to the second temperature (column 7, lines 65-67; column 8, lines 1-2).

31. As to claim 17, Tomita does not expressly disclose that the inner surface of the processing chamber comprises a fluoropolymer, further comprising contacting the inner surface of the processing chamber with the etchant liquid. However, Tomita discloses directing an external infrared heater (24) to heat a microfeature workpiece (23) (column 7, lines 62-62), contained in a quartz processing chamber (21) (column 7, line 59; Figure 5). Moreover, the microfeature workpiece (23) is immersed in either sulfuric or phosphoric acid (column 7, lines 65-57; column 8, lines 1-2, lines 25-27). McNeilly teaches the general concept of using a fluoropolymer material in a vapor etching chamber (2) (column 10, lines 25-30; Figure 1) as a suitable material when both corrosion resistance (column 12, lines 42-44) and transparency to infrared wavelengths are required (column 12, lines 44-46). McNeilly also teaches the use of fluoropolymer-coated quartz in etching chambers (column 13, lines 6-11). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form inner surface of the processing chamber with a fluoropolymer, further comprising contacting the inner surface of the processing chamber with the etchant liquid. One who is skilled in the art would be motivated to use a material, such as a fluoropolymer, which is both resistant to etching chemicals and transparent to infrared radiation.

32. As to claim 19, Tomita discloses a method of processing a microfeature workpiece, comprising: supporting a microfeature workpiece (23) with an unheated

support (22) in an interior of a processing chamber (23) (column 7, lines 57-61; Figure 5); contacting a surface of the microfeature workpiece (23) with a processing fluid (column 7, lines 65-67; column 8, lines 1-2; Figure 5); delivering infrared radiation through the wall of the processing chamber to heat the processing fluid from a first temperature to a higher second temperature that promotes processing of the surface of the microfeature workpiece (column 7, lines 62-67; column 8, lines 1-2), the wall being substantially infrared transparent (column 7, line 58) and the processing fluid being absorptive of the infrared radiation (column 7, lines 62-64); and maintaining a temperature of the processing fluid at or above the second temperature for a process period to process the surface of the microfeature workpiece (23) (column 8, lines 3-9), a temperature of the wall of the processing chamber being no greater than the temperature of the processing fluid during the process period (column 7, lines 62-64, lines 65-67; column 8, lines 1-2). The infrared heater (24) is directed at heating microfeature workpiece (23) (column 7, lines 62-62), rather than the quartz walls of processing chamber (21) (column 7, line 59).

33. Tomita does not expressly disclose that the interior of a processing chamber comprising a polymer. However, Tomita discloses directing an external infrared heater (24) to heat a microfeature workpiece (23) (column 7, lines 62-62), contained in a quartz processing chamber (21) (column 7, line 59; Figure 5). Moreover, the microfeature workpiece (23) is immersed in either sulfuric or phosphoric acid (column 7, lines 65-57; column 8, lines 1-2, lines 25-27). McNeilly teaches the general concept of using a fluoropolymer material in a vapor etching chamber (2) (column 10, lines 25-30; Figure 1)

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as a suitable material when both corrosion resistance (column 12, lines 42-44) and transparency to infrared wavelengths are required (column 12, lines 44-46). McNeilly also teaches the use of fluoropolymer-coated quartz in etching chambers (column 13, lines 6-11). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the interior of a processing chamber comprising a polymer. One who is skilled in the art would be motivated to use a material, such as a fluoropolymer, which is both resistant to etching chemicals and transparent to infrared radiation.

34. As to claim 20, Tomita does not expressly disclose the processing fluid comprises an etchant liquid and processing the surface of the microfeature workpiece comprises etching the surface of the microfeature workpiece. However, Tomita discloses the microfeature workpiece (23) is silicon (column 7, line 62), immersed in phosphoric acid (column 8, lines 25-27), heated to a temperature between 150°C to 300°C (Figure 3). Yokomizo teaches that exposure of silicon to phosphoric acid at a temperature range of 160°C to 180°C results in silicon etching (column 1, lines 13-24). Therefore, processing fluid is inherently an etchant liquid and the step of processing the surface of the microfeature workpiece comprises etching the surface of the microfeature workpiece is inherently accomplished by Tomita's method.

35. As to claim 21, Tomita does not expressly disclose that an inner surface of the processing chamber comprises a fluoropolymer, further comprising contacting the inner surface of the processing chamber with the etchant liquid. However, Tomita discloses directing an external infrared heater (24) to heat a microfeature workpiece (23) (column

7, lines 62-62), contained in a quartz processing chamber (21) (column 7, line 59; Figure 5). Moreover, the microfeature workpiece (23) is immersed in either sulfuric or phosphoric acid (column 7, lines 65-57; column 8, lines 1-2, lines 25-27). McNeilly teaches the general concept of using a fluoropolymer material in a vapor etching chamber (2) (column 10, lines 25-30; Figure 1) as a suitable material when both corrosion resistance (column 12, lines 42-44) and transparency to infrared wavelengths are required (column 12, lines 44-46). McNeilly also teaches the use of fluoropolymer-coated quartz in etching chambers (column 13, lines 6-11). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the inner surface of the processing chamber comprising a fluoropolymer, further comprising contacting the inner surface of the processing chamber with the etchant liquid. One who is skilled in the art would be motivated to use a material, such as a fluoropolymer, which is both resistant to etching chemicals and transparent to infrared radiation.

36. As to claim 22, Tomita discloses adding the processing fluid to the processing space at an introduction temperature that is below the second temperature (column 4, lines 59-63).

37. As to claim 23, Tomita discloses adding the processing fluid to the processing space at the first temperature that is below the second temperature (column 4, lines 59-63).

38. As to claim 24, Tomita discloses that the radiation is delivered substantially uniformly across the surface of the microfeature workpiece (23) (column 7, lines 62-64; column 8, lines 3-9).

39. As to claim 25, Tomita discloses that the radiation comprises infrared radiation (column 7, lines 57-61).

40. As to claim 26, Tomita discloses enclosing the microfeature workpiece (23) within the interior of the processing chamber (21) (column 7, lines 57-61; Figure 5).

41. As to claim 27, Tomita discloses that the radiation is substantially the only heat source for heating the processing fluid from the first temperature to the second temperature (column 7, lines 62-64).

42. Claims 18 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tomita in view of McNeilly, in further view of Yokomizo.

43. As to claims 18 and 28, Tomita does not expressly disclose that etching or processing the surface of the microfeature workpiece yields a resultant etchant, the method further comprising determining at least one chemical property of the microfeature workpiece by chemically analyzing the resultant etchant. However, Tomita discloses that the silicon microfeature workpiece (23) is silicon (column 7, line 62) and immersed in phosphoric acid (column 8, lines 25-27). Yokomizo teaches that when etching silicon with a phosphate etchant, the concentration of silicon in the phosphate increases, and that the solution must be periodically changed (column 1, lines 34-40). Yokomizo discloses a processing chamber (10) for etching microfeature workpiece (W) in etchant liquid (E), which contains a concentration sensor (50) (column 4, lines 54-59).

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to detect silicon concentration in the etchant liquid (column 7, lines 15-22). Moreover, when the silicon concentration reaches a predetermined level, this signal can either terminate the etching process (column 7, lines 15-22) or trigger replacement of the etchant liquid (column 7, lines 43-50). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the step of determining at least one chemical property of the microfeature workpiece by chemically analyzing the resultant etchant. One who is skilled the art would be motivated to determine the completion of the etching process or to determine when the etchant liquid should be replaced.

#### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B. Chen whose telephone number is (571) 272-2947. The examiner can normally be reached on Monday through Friday, 8AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine G. Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EBC  
April 27, 2005

NADINE G. NORTON  
SUPERVISORY PATENT EXAMINER  
